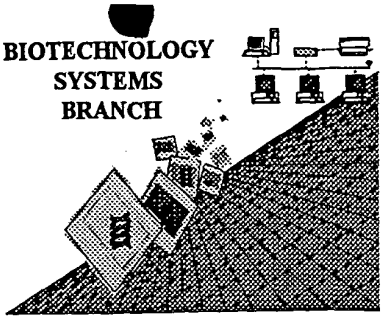
0500

BIOTECHNOLOGY SYSTEMS BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

#1 1/2

Application Serial Number: 09/611,527

Source: OIPE

Date Processed by STIC: 7/25/2000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**

2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER, 703-308-4212.

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

http://www.uspto.gov/web/offices/pac/checker

OIPE

RAW SEQUENCE LISTING DATE: 07/25/2000
PATENT APPLICATION: US/09/611,527 TIME: 17:40:46

Input Set : C:\jumbos\Ppp.app
Output Set: N:\CRF3\07252000\I611527.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Williams, Lewis T.
4 Escobedo. Jaime
5 Innis, Michael A.
6 Garcia, Pablo Dominguez
7 Klinger, Julie
8 Reinhard, Christoph
9 Randazzo, Filippo
10 Kennedy, Giulia C.
11 Pot, David
12 Lamson, George
13 Drmanac, Radoje
14 Crkvenjakov, Radomir
15 Dickson, Mark
16 Drmanac, Snezana
17 Labat, Ivan
18 Leshkowitz, Dena
19 Kita, David
20 Garcia, Veronica
21 Jones, William Lee
22 Stache-Crain, Birjit
24 <120> TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
25 PRODUCTS
27 <130> FILE REFERENCE: 200130.512
C--> 29 <140> CURRENT APPLICATION NUMBER: US/09/611,527
30 <141> CURRENT FILING DATE: 2000-06-30
32 <160> NUMBER OF SEQ ID NOS: 3351
34 <170> SOFTWARE: FastSEQ for Windows Version 3.0

ERRORED SEQUENCES

4836 <210> SEQ ID NO: 304
4837 <211> LENGTH: 401
4838 <212> TYPE: DNA
4839 <213> ORGANISM: Homo sapien
4841 <400> SEQUENCE: 304

insert a hard return after each cumulative base total figure

E--> 4842
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4843 aggacgatcg aggggcagtc tccggagccg gtgttcggag atgctgatgt ggatgtgtct 180
4844 gcagttcagg cgaagttggg agccctggaa ctgaaccaga gggatgctgc agctgaaact 240
4845 gagctcaggg tgcacccacc ctgccagcgg cactgcccag agccgccgag tgcacccgaa 300
4846 gaaaacaaag ccaccagcaa agctccccaa ggcagcaact caaaaacccc catctttagc 360
4847 ccttttccca gcgtcaagcc ccttgcggaa tctgctactg g 401
6274 <210> SEQ ID NO: 395
6275 <211> LENGTH: 388
6276 <212> TYPE: DNA
6277 <213> ORGANISM: Homo sapien
6279 <400> SEQUENCE: 395

RAW SEQUENCE LISTING DATE: 07/25/2000
PATENT APPLICATION: US/09/611,527 TIME: 17:40:46

Input Set : C:\jumbos\Ppp.app
Output Set: N:\CRF3\07252000\I611527.raw

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     6280  atcgattcga attcggcacg agatccaagc catctgcatc gcagcctttt accggaagga      60
     6281  gtggccgctc ctggtggtgg tgccatcctc cgtgcgcttc acctgggagc aggccttcct     120
     6282  tcggtggctg ccatctctga gcccagattg catcaacgtc gaggtgactg ggaaggaccg     180
     6283  cctgacagct ggcctgatca acattgtcag ctttgacctt cttagcaagt tggaaaaaca     240
     6284  gctaacaacc ccttttaaag ttgtcatcat tgatgccaag agggtgatcc tgttgtcggg     300
E--> 6285                                                                    same error
 cacaccagcc atgtcccggc ccgcagagct ctacacgcag atcatcgcag tcaagccaac     360tttcttcccc cagtttcatg cctttgga
     6460 <210> SEQ ID NO: 408
     6461 <211> LENGTH: 382
     6462 <212> TYPE: DNA
     6463 <213> ORGANISM: Homo sapien
     6465 <400> SEQUENCE: 408
     6466  aaaaacaatt agctaactgg tgattgtgtg aaggatgaac tggattaggc caaggtgatc      60
     6467  aagaagaaga ttggtagatt aacgtggtca ggaggtcatg agaacttcaa atgaggcagt     120
     6468  gaccatcagg aaaaaatttg taagaagaat ggtcaggacc aaatgagttt ggtttggtcc     180
E--> 6469                                                                    same
 tgctgagttt gaggcatatg gtggaaactg cccagctccc tccttcagaa atgagacact     240ctttccctag ctggcctggt ataggctgtt aat
     6470  ctcgcccttg gctgaaagga gctacaagga gttcatgggt gactttggcc agaggagttg     360
     6471  atgaggagag gaaggtctgg gg                                             382
     7537 <210> SEQ ID NO: 475
     7538 <211> LENGTH: 359
     7539 <212> TYPE: DNA
     7540 <213> ORGANISM: Homo sapien
     7542 <400> SEQUENCE: 475
     7543  cgttgctgtc gcggggcgga gcttgggtgc aagaatgtcc aggagcaggc agagggcatc      60
     7544  gaggagcagg gcctggggcg tggcccggct gcgcgtggct ggcgcgatgc cggacaccag     120
     7545  cgtctggatc aggttcctca tctggctcat ccggttctgg gcctcctgct ggctgctggg     180
E--> 7546                                                                    same
 gaaggtgatc ctgggtgtgt ggctggaagc aaacagcaca tggaaggcca cgggcaggaa     240gggtgggtag cgcagcagct ggaagctctg gct
     7547  atcgaaggcc agccagtcga gggccacaca cacagcaccc aggctggagt ctcgcagcc      359
     11131 <210> SEQ ID NO: 698
     11132 <211> LENGTH: 390
     11133 <212> TYPE: DNA
     11134 <213> ORGANISM: Homo sapien
     11136 <400> SEQUENCE: 698
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     11138  ggctaggggc ggggctgccc tcctggggcc tggcgcccgg cgcccacctg gcacgtgccc     120
     11139  ccgcccccag gatgtggagt cagagaacgt caacgtggtg aagcggctgt tcaagatcca     180
     11140  gaacctcatt gccagcaccg ttcgcacggt gatggtggcc gactgcagcc gcttctacag     240
E--> 11141                                                                   same
 ccctgacctg ctgctggaag ccggtgaccc ggccacgtcc ccctgccgca tctttgacct     300gggcagcgac aacgaggagg tggtggctgc tct
     11142  tgaggactat tcttacagcg agctggaggg                                     390
     12762 <210> SEQ ID NO: 802
     12763 <211> LENGTH: 395
     12764 <212> TYPE: DNA
     12765 <213> ORGANISM: Homo sapien
     12767 <400> SEQUENCE: 802
E--> 12768                                                                   same
 ttcgaattcg gcacgagcct ctccacttca tcccgaggaa gcagctgtgt gacggagagc      60tggactgtcc cttgggggag gacgaggagc act
     12769  cagtggcagt ccgcctctcc aaggaccgat ccacactgca ggtgctggac tcggccacag     180
     12770  ggaactggtt ctctgcctgt ttcgacaact tcacagaagc tctcgctgag acagcctgta     240
     12771  ggcagatggg ctacagcagc aaacccactt tcagagctgt ggagattggc ccagaccagg     300
     12772  atctggatgt tgttgaaatc acaggctaca gggagaccgg gaggatcaca gagccagcat     360
     12773  gttacaggat cctgacagtg atcaacctct gaaca                                395
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RAW SEQUENCE LISTING DATE: 07/25/2000
PATENT APPLICATION: US/09/611,527 TIME: 17:40:48

Input Set : C:\jumbos\Ppp.app
Output Set: N:\CRF3\07252000\I611527.raw

19198 <210> SEQ ID NO: 1203
19199 <211> LENGTH: 415
19200 <212> TYPE: DNA
19201 <213> ORGANISM: Homo sapien
19203 <220> FEATURE:
19204 <221> NAME/KEY: misc_feature
19205 <222> LOCATION: (1)...(415)
19206 <223> OTHER INFORMATION: n = A,T,C or G
19208 <400> SEQUENCE: 1203
19209 tacggctgcg agaagacgac agaaggggac acaaatacac aaggaaagct ccatggaaga 60
E--> 19210
taaaggcaga gatttacaag ccaaggaatg tcaaagacgg ccagcacacc accagaagct 120agcagagagg tatggaacag attcttcttc ac
W--> 19211 ctggatttca aactcctggc ctccagaacg agacggngtt ttaccacgtt agccgcgctg 240
W--> 19212 ggcttgaact cctgacctca ggtgatccac ccgcctcgat cgccattata acaatcanat 300
19213 ggctgtcttc atggactggt acaaaacaga atatacacca tggacagaca gaggctcaga 360
W--> 19214 acacacacac tctacaccan tgatcttgca acctgacaaa cagcatgaga aggac 415
29199 <210> SEQ ID NO: 1828
29200 <211> LENGTH: 420
29201 <212> TYPE: DNA
29202 <213> ORGANISM: Homo sapien
29204 <400> SEQUENCE: 1828
29205 ggcacgaggg aggggctgga cgttccacgc caaaggcctc tggctgtacc tggcagggag 60
29206 cagcctgccc tgtctcacgc tgattggctc tcctaatttt gggtacaggt cagttcaccg 120
29207 ggacctggag gcccagattg cgatcgtgac ggagaaccag gccctgcagc agcagcttca 180
E--> 29208
ccaggagcaa gagcagctct acctgaggtc aggtgtggtg tcctctgcca ccttcgagca 240gccgagtcgc caggtgaagc tgtgggtgaa ga
29209 ctgaggacag acaggaatgg ccttgatgaa gatgacaggc atggccgggg tcagctcttt 360
29210 cagccgcgct tcagcgatga ctccagtctg ggtgtcccag cgagcccctg cagggacagt 420
36950 <210> SEQ ID NO: 2325
36951 <211> LENGTH: 377 367
36952 <212> TYPE: DNA
36953 <213> ORGANISM: Homo sapien
36955 <400> SEQUENCE: 2325
36956 gccgtcaggt gcgggcccag gtggcaggcg cgcccgttgg gcactggggg acgcgggcgc 60
36957 gtcaggtgaa gactgggggc cgcaggcgcg ctaggagaac tatgccattt ttgggtcagg 120
36958 actggagatc tcctggatgg agttggatta agacagaaga tggctggaag agatgtgaat 180
36959 cttgtagtca gaaacttgaa agagagaata accgttgtaa catcagtcac agcattatct 240
E--> 36960
taaatagtga agatggagaa atattcaata atgaagagca tgaatatgca tcgaaaaaaa 300ccattttaga aatgacacaa atactcaaaa ggc
E--> 36961 ggagaagcct ttaatcg 377
45040 <210> SEQ ID NO: 2860
45041 <211> LENGTH: 422 420
45042 <212> TYPE: DNA
45043 <213> ORGANISM: Homo sapien
45045 <400> SEQUENCE: 2860
45046 ggcacgagga gagagagaga gttagagtta tagagagaga gagagagaga gagagagaga 60
45047 gagagagaga gagagagaga gagagagaga gagagagaga gagagacaga gagagagaga 120
45048 gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga gagagcgccc 180
45049 ctctctctct ttttttcgtg cgctcttgcg atagatatct ttttttctct ctcgcgcgtg 240
45050 ttttctcaca cacacacaaa aaagcgctct ccccctacac gccccccccc ctctgtggag 300
45051 tgtagaatat gtgtgcgcgt gctttctttc tctctctctg tgaggggggt ttcccccccc 360
E--> 45052
tcgtttgtgt gtgggctctt tatgtgtgtt ttctctcgcg cgcccgcaca ttttaaaaaa 420

see p. 4 for more errors

RAW SEQUENCE LISTING DATE: 07/26/2000
PATENT APPLICATION: US/09/611,527 TIME: 18:39:39

Input Set : N:\jumbos\611527
Output Set: N:\CRF3\07262000\I611527.raw

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      3 <110> APPLICANT: Williams, Lewis T.
      4       Escobedo. Jaime
      5       Innis, Michael A.
      6       Garcia, Pablo Dominguez
      7       Klinger, Julie
      8       Reinhard, Christoph
      9       Randazzo, Filippo
     10       Kennedy, Giulia C.
     11       Pot, David
     12       Lamson, George
     13       Drmanac, Radoje
     14       Crkvenjakov, Radomir
     15       Dickson, Mark
     16       Drmanac, Snezana
     17       Labat, Ivan
     18       Leshkowitz, Dena
     19       Kita, David
     20       Garcia, Veronica
     21       Jones, William Lee
     22       Stache-Crain, Birjit
     24 <120> TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
     25       PRODUCTS
     27 <130> FILE REFERENCE: 200130.512
C--> 29 <140> CURRENT APPLICATION NUMBER: US/09/611,527
     30 <141> CURRENT FILING DATE: 2000-06-30
     32 <160> NUMBER OF SEQ ID NOS: 3351
     34 <170> SOFTWARE: FastSEQ for Windows Version 3.0

ERRORED SEQUENCES

     36958 <210> SEQ ID NO: 2325
     36959 <211> LENGTH: 377 369
     36960 <212> TYPE: DNA
     36961 <213> ORGANISM: Homo sapien
     36963 <400> SEQUENCE: 2325
     36964 gccgtcaggt gcgggcccag gtggcaggcg cgcccgttgg gcactggggg acgcgggcgc      60
     36965 gtcaggtgaa gactgggggc cgcaggcgcg ctaggagaac tatgccattt ttgggtcagg     120
     36966 actggagatc tcctggatgg agttggatta agacagaaga tggctggaag agatgtgaat     180
     36967 cttgtagtca gaaacttgaa agagagaata accgttgtaa catcagtcac agcattatct     240
     36968 taaatagtga agatggagaa atattcaata atgaagagca tgaatatgca tcgaaaaaaa     300
E--> 36969 ccattttaga aatgacacaa atactcaaaa ggcatggcta ttgcaccttg    360 350 367 377
E--> 36970 ggagaagcct ttaatcg
```

This error appeared after SMC inserted a hard return at end of "300" figure

See next page for more errors

/ insert hard return

<210> 705
<211> 387 <212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(387)
<223> n = A,T,C or G

<400> 705
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ttctccttca tcttctccag ttggtctctg gatttgttta gatcttcaat ggctttagtc 120
tgttccaaag ctttaatcta caaagtcaag agaatgctga taactccttt tgtatttagt 180
taggaaaact gtctaaacat gacaaatcag aagtcaatgg aattcacttc ataccctttt 240
tatgaataaa gaatggagtt catcccatac agctagagat tttgctaagc atatgtgctg 300
gacaaacatg tcttaataca gttaccgctt caaaccacac cttagaggac ccttatttgg 360
aaaattcatt gaaaaaaaac tgatacn 387

FYI

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.